

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Oasis'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 20th day of December in the year of our Lord one thousand nine hundred and seventy-three

Attest:

L. J. Rollin
 Commissioner
 Plant Variety Protection Office
 Grain Division
 Agricultural Marketing Service

Earl H. Buttz

Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Oasis	2. KIND NAME Lettuce	FOR OFFICIAL USE ONLY	
		PVPO NUMBER 73010	
3. GENUS AND SPECIES NAME Lactuca sativa	4. FAMILY NAME (Botanical) Compositae	FILING DATE 3-8-73	TIME 3:30 A.M.
	5. DATE OF DETERMINATION February 28, 1966	FEE RECEIVED \$ 250	CHARGES
6. NAME OF APPLICANT(S) Asgrow Seed Company	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Kalamazoo, Michigan 49001	8. TELEPHONE AREA CODE AND NUMBER (616) 382-4000	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. STATE OF INCORPORATION Delaware	11. DATE OF INCORPORATION March 22, 1968

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

~~Mr. John A. Batcha~~ **Dr. Allen R. Hatter**
Asgrow Seed Company **9625-190-1**
9620-190-1
Kalamazoo, Michigan 49001

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- 12B. Exhibit B, Botanical Description of the Variety
- 12C. Exhibit C, Objective Description of the Variety
- 12D. Exhibit D, Data Indicative of Novelty
- 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. (See Section 52, P.L. 91-577).

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.) YES NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

February 28, 1973
(DATE)

John A. Batcha
(SIGNATURE OF APPLICANT)

John A. Batcha
Assistant to the President

(SIGNATURE OF APPLICANT)

LETTUCE

'Oasis'

13A. Exhibit A:

A single plant selection from 'Great Lakes 659' in 1961. Evaluations and increase were made between 1962-1965. In 1966 greenhouse mosaic stock was grown from mosaic indexed seed, evaluated and increased further in 1968 as a production crop in Australia.

13B. Exhibit B:

Heading Great Lakes type closely resembling 'Great Lakes 659'. Seedlings characterized by very unevenly cut, ragged appearing leaf margin. Seed stalk about same size as 'Mesa 659' and 'Great Lakes 659-700' but the inflorescence is approximately 20 cm. shorter than that of either variety. Average maturity earlier, head size and overall plant size smaller, leaf margin more frilled than 'Great Lakes 659'. Tolerance to bolting in warm weather greater than 'Great Lakes 659'.

13C. Exhibit C:

Plant type	: Crisphead (Great Lakes group)
Seed color	: White
Anthocyanin	: Absent
Leaf surface	: Blistered, glossy
Leaf margin	: Wavy, incised
Leaf shape	: Rounded, broader than long
Leaf color	: Dark green
Head	: <u>Spherical</u>
Plant size	: Medium
Culture	: Summer crop
Seedling length	: 53 mm.
Cotyledon	: 4 mm. wide, 11 mm. long
Disease reaction	: Unknown

'Oasis' resembles 'Mesa 659' in leaf color; nonpigmentation, shape, plant and head size.

Number of days (120) to head maturity in winter in Imperial Valley and number of days (71) in summer in Salinas Valley are same as for 'Mesa 659'. Number of days to seed stalk emergence in summer in Stratford, California, 75 for 'Oasis', 73 for 'Mesa 659'.

13D. Exhibit D:

'Oasis' most closely resembles 'Mesa 659'. The leaf margin of 'Oasis' is more unevenly cut giving a more ragged appearance. The seed stalk of 'Oasis' is about the same size as that of 'Mesa 659' and 'Great Lakes 659-700' but its inflorescence is approximately 20 cm. shorter than those varieties.

In comparative trial, when 'Mesa 659' was 40 percent bolted 'Oasis' was 10-15 percent bolted. Six days later in the same trial 'Mesa 659' was 100 percent bolted and 'Oasis' was 50 percent bolted.

13E. Exhibit E:

Developed by Asgrow Seed Company utilizing material and facilities owned or controlled by the company.

Plant Variety Protection Application
Asgrow Seed Company
Lettuce - Oasis
February 28, 1973

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY.

'Oasis' originated by selection in the variety 'Great Lakes 659'. Original selection was made in 1961. Evaluation and an increase were made in 1962. Further evaluation came in 1963 and again in 1964 when the line was again selected. In 1965 evaluations were made and in 1966 a greenhouse M.I. basic stock was grown. This 1966 crop, PC66105, was used to grow a 1968 Production crop in Australia, PC68A193.

During the reproduction phases no variants were observed. The history of this item has shown the item to be stable through three breeding ground increases and two Production crops.

(1) = *M. sativum*

Plant Variety Protection Application
Asgrow Seed Company
Lettuce - Oasis
February 28, 1973

EXHIBIT B

BOTANICAL DESCRIPTION OF THE VARIETY.

This white seeded variety has no special seed characteristics to distinguish it from other white seeded lettuce varieties. The seedling stage is characterized by a very unevenly cut and ragged appearing leaf margin as shown on the leaf outline. The flowering stage produces a seed stalk about the size of 'Mesa 659' and 'Great Lakes 659-700' but this inflorescence is approximately eight inches shorter than those varieties.

The mature plant of 'Oasis' is similar to the variety 'Great Lakes 659'. Maturity is generally earlier than 'Great Lakes 659' and about as early as the earlier plants in that variety. Head size is smaller and overall plant size is smaller. The leaf frill or cut on the margins is greater in 'Oasis'. Bolting tolerance is greater and 'Oasis' will tolerate more warm weather and still make firm heads than 'Great Lakes 659'.

Plant Variety Protection Application
 Asgrow Seed Company
 Lettuce - Oasis

February 28, 1973

FORM GR-470-1
 (4-3-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 GRAIN DIVISION
 HYATTSVILLE, MARYLAND 20782

EXHIBIT C
 (Lettuce)

OBJECTIVE DESCRIPTION OF VARIETY
 (LETTUCE)

INSTRUCTIONS: See reverse.

NAME OF APPLICANT(S) Asgrow Seed Company		FOR OFFICIAL USE ONLY	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Kalamazoo, Michigan 49001		PVPO NUMBER 297 - 1 - 7300070	VARIETY NAME OR TEMPORARY DESIGNATION OASIS

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. PLANT TYPE: <input type="checkbox"/> 4 <input type="checkbox"/> 2 10 = CUTTING (Leaf) 20 = STALK 50 = BUTTERHEAD 60 = LATIN 70 = OTHER (Specify)		30 = COS 31 = SELF-CLOSING GROUP 32 = LOOSE-CLOSING GROUP	40 = CRISPHEAD 41 = IMPERIAL GROUP 42 = GREAT LAKES GROUP 43 = VANGUARD 44 = NEW YORK GROUP
2. SEED COLOR: <input type="checkbox"/> 1 1 = WHITE 2 = BLACK 3 = YELLOW		3. ANTHOCYANIN: <input type="checkbox"/> 1 1 = ABSENT 2 = PRESENT	
4. LEAF CONTAINING ANTHOCYANIN: <input type="checkbox"/> 4 1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify)			
5. LEAF SURFACE TEXTURE: <input type="checkbox"/> 2 1 = SMOOTH 2 = BLISTERED		6. LEAF SURFACE REFLECTANCE: <input type="checkbox"/> 2 1 = DULL 2 = GLOSSY 3 = OTHER (Specify)	
7. LEAF MARGIN: <input type="checkbox"/> 2 1 = STRAIGHT 2 = WAVY 3 = CURLED		8. LEAF SHAPE: <input type="checkbox"/> 1 1 = BROADER THAN LONG 2 = LONGER THAN BROAD 3 = OTHER (Specify)	
9. LEAF COLOR: (See reverse.) <input type="checkbox"/> 7 1 = RED 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN 6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN			
10. HEADS: <input type="checkbox"/> 1 1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE 4 = POINTED 5 = NON-HEADING		11. PLANT SIZE: (See reverse.) <input type="checkbox"/> 2 1 = SMALL 2 = MEDIUM 3 = LARGE	
12. CULTURE: <input type="checkbox"/> 1 1 = SUMMER CROP 2 = WINTER CROP 3 = NOT SPECIFIC 4 = UNDER GLASS 5 = OTHER (Specify)			
13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e. <input type="checkbox"/> 0 <input type="checkbox"/> 2) when size is 9 mm. or less.) <input type="checkbox"/> 5 <input type="checkbox"/> 3 mm. LENGTH OF SEEDLING <input type="checkbox"/> 1 <input type="checkbox"/> 1 mm. LENGTH OF COTYLEDON <input type="checkbox"/> 0 <input type="checkbox"/> 4 mm. WIDTH OF COTYLEDON			
14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance) * <input type="checkbox"/> 0 1 = TIPBURN <input type="checkbox"/> 0 2 = MOSAIC <input type="checkbox"/> 0 3 = DAMPING OFF <input type="checkbox"/> 0 4 = DOWNY MILDEW <input type="checkbox"/> 0 5 = SCLEROTINIA ROT <input type="checkbox"/> 0 6 = BROWN BLIGHT <input type="checkbox"/> 0 7 = BIG VEIN <input type="checkbox"/> 0 8 = OTHER (Specify)			
15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.)			

(See Attached Sheet)

* (Enter 0 - Not Tested; 1 - Susceptible; 2 - Resistant)

16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER		NAME OF VARIETY				
Leaf color	Mesa 659					
Leaf pigmentation	Mesa 659					
Leaf shape	Mesa 659					
Plant size	Mesa 659					
Head size	Mesa 659					
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted	120	Imperial Valley	71	Salinas Valley	75	Stratford, Calif.
Similar	120	Imperial Valley	71	Salinas Valley	73	Stratford, Calif.
Name of similar variety	Mesa 659		Mesa 659		Mesa 659	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Institut voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

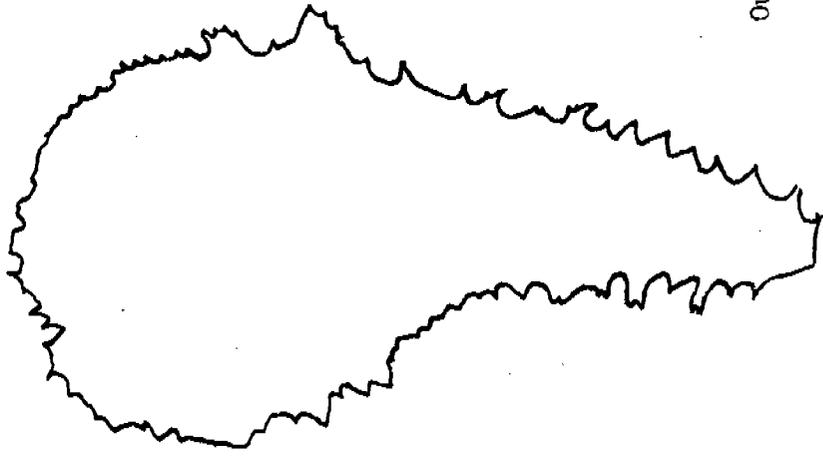
<u>Color</u>	<u>Variety</u>
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

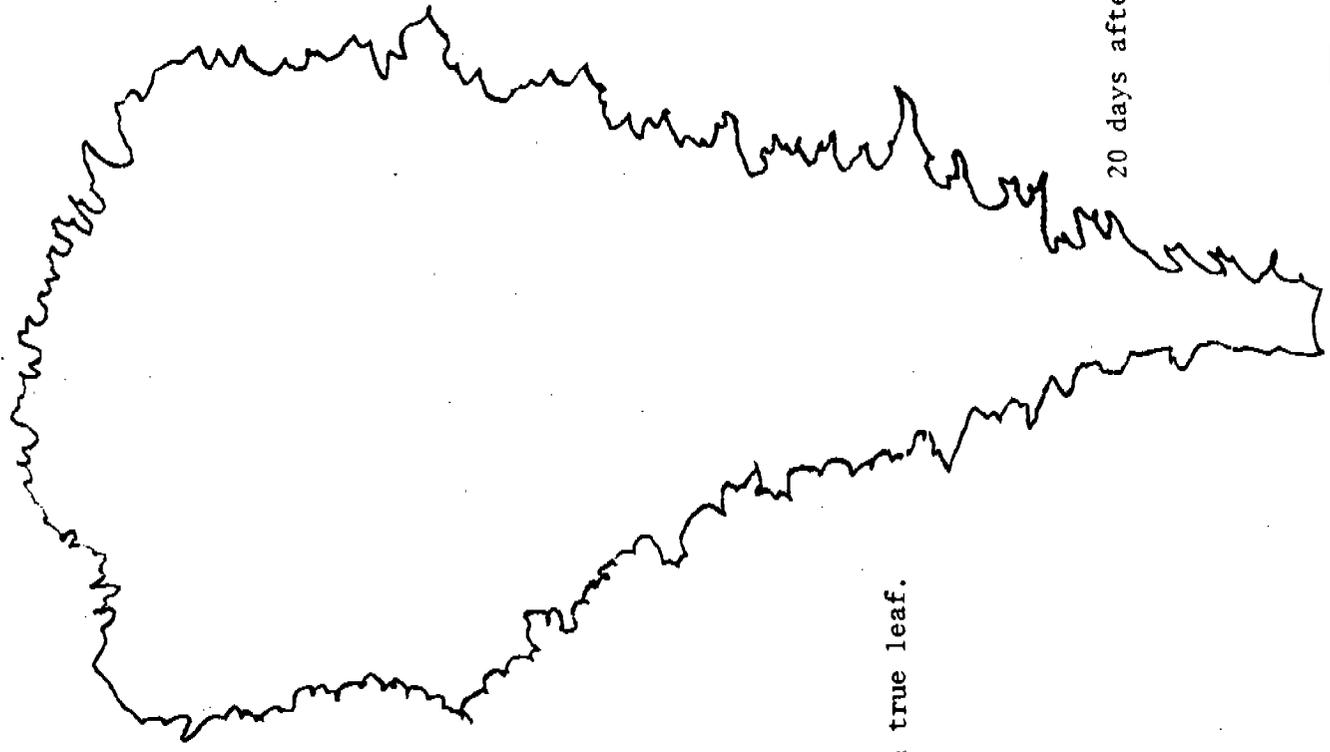
TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrine	Creole	Deer Tongue

Plant Variety Protection Application
Asgrow Seed Company
Lettuce - Oasis
February 28, 1973

OASIS



20 days after seeding



20 days after emergence

Outline of fourth true leaf.

Plant Variety Protection Application
Asgrow Seed Company
Lettuce - Oasis
February 28, 1973

EXHIBIT D

DATA INDICATIVE OF NOVELTY

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In comparative trial, when 'Mesa 659' was 40 percent, bolted 'Oasis' was 10-15 percent bolted. Six days later in the same trial 'Mesa 659' was 100 percent bolted and 'Oasis' was 50 percent bolted.

Allen R. Trotter
Allen R. Trotter

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EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANTS OWNERSHIP.

The new plant variety, Oasis, was developed under the investigation, support, and corporate objectives of Asgrow Seed Company (a subsidiary of The Upjohn Company) utilizing contributive parent stocks and facilities owned or controlled by the company.